

## Claims

1. A method of using micro-variations of a biological living plant organism to generate music, such method comprising the steps of:

detecting a plant microvoltage across a varying resistance of the biological living plant organism within a Wheatstone bridge;

generating a feedback signal from an output of an external MIDI sound generator;

subtracting the feedback signal from the plant microvoltage to provide a difference signal; and

providing the difference signal as a drive signal to the MIDI sound generator to generate musical tones.

2. The method of using micro-variations of the biological living plant organism to generate music as in claim 1 wherein the step of detecting a plant microvoltage across a varying resistance of the biological living plant organism within a Wheatstone bridge further comprises balancing the varying resistance against a known resistance.

3. The method of using micro-variations of the biological living plant organism to generate music as in claim 2, wherein the step of generating the feedback signal further comprises integrating a variable frequency pulse train from the output of the MIDI sound generator.

4. The method of using micro-variations of the biological living plant organism to generate music as in claim 2 further comprising connecting the biological living plant organism and known resistance in series.

5. The method of using micro-variations of the biological living plant organism to generate music as in claim 4 further comprising connecting an even number of series-connected diodes in parallel with the series connected plant and known resistance.

6. The method of using micro-variations of the plant to generate music as in claim 5 further comprising connecting a reference voltage to a center point of the series-connected diodes.

7. The method of using micro-variations of the plant to generate music as in claim 6 further comprising detecting the plant microvoltage from a center point of the series-connected plant and known resistance.

8. An apparatus for using micro-variations of a biological living plant organism to generate music, such apparatus comprising:

means for detecting a plant microvoltage across a varying resistance of the biological living plant organism within a Wheatstone bridge;

means for generating a feedback signal from an output of an external MIDI sound generator;

means for subtracting the feedback signal from the plant microvoltage to provide a difference signal; and

means for providing the difference signal as a drive signal to the MIDI sound generator to generate music.

9. The apparatus for using micro-variations of the biological living plant organism to generate music as in

claim 8 wherein the means for detecting a plant microvoltage across a varying resistance of the biological living plant organism within a Wheatstone bridge further comprises means for balancing the varying resistance against a known resistance.

10. The apparatus for using micro-variations of the biological living plant organism to generate music as in claim 9, wherein the means for generating the feedback signal further comprises means for integrating a variable frequency pulse train from the output of the MIDI sound generator.

11. The apparatus for using micro-variations of the biological living plant organism to generate music as in claim 8 further comprising means for connecting the biological living plant organism and known resistance in series.

12. The apparatus for using micro-variations of the biological living plant organism to generate music as in claim 11 further comprising means for connecting an even number of series-connected diodes in parallel with the series connected plant and known resistance.

13. The apparatus for using micro-variations of the plant to generate music as in claim 12 further comprising means for connecting a reference voltage to a center point of the series-connected diodes.

14. The apparatus for using micro-variations of the plant to generate music as in claim 13 further comprising means

for detecting the plant microvoltage from a center point of the series-connected plant and known resistance.

15. An apparatus for using micro-variations of a biological living plant organism to generate music, such apparatus comprising:

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a Wheatstone bridge <sup>providing</sup> ~~adapted to provide~~ a plant microvoltage across a varying resistance of the biological living plant organism;

a feedback loop <sup>providing</sup> ~~adapted to provide~~ a feedback signal from an output of an external MIDI sound generator;

a differential amplifier <sup>subtracting</sup> ~~adapted to subtract~~ the feedback signal from the plant microvoltage to provide a difference signal; and

a drive amplifier <sup>providing</sup> ~~adapted to provide~~ the difference signal as a drive signal to the MIDI sound generator to generate music.

16. The apparatus for using micro-variations of the biological living plant organism to generate music as in claim 15 wherein the Wheatstone bridge further comprises a known resistance adapted for balancing against the varying resistance.

17. The apparatus for using micro-variations of the biological living plant organism to generate music as in claim 16, wherein the feedback loop further comprises an integrator adapted to integrate a variable frequency pulse train from the output of the MIDI sound generator.

18. The apparatus for using micro-variations of the biological living plant organism to generate music as in

claim 15 further comprising the biological living plant organism and known resistance connected in series.

19. The apparatus for using micro-variations of the biological living plant organism to generate music as in claim 18 further comprising an even number of series-connected diodes connected in parallel with the series connected plant and known resistance.

20. The apparatus for using micro-variations of the plant to generate music as in claim 19 wherein the series connected diodes further comprises a center point for providing a reference voltage.

21. A method of using micro-variations of a biological living plant organism to generate music, such method comprising the steps of:

detecting a plant microvoltage across a varying resistance of the biological living plant organism within a Wheatstone bridge;

providing the plant microvoltage as a driving signal to an external MIDI sound generator; and

generating a feedback signal from an output of the MIDI sound generator; and

substantially reducing the driving signal with the feedback signal.